PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE RECONSTRUCTION OF AN EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 648 AND PASADENA RD./CATHERINE AVE. IN ANNE ARUNDEL COUNTY. THE WORK IS NECESSITATED BY THE WIDENING TO CREATE LEFT TURN LANES. MD 648 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL NOW OPERATE IN A NEMA FOUR-PHASE, FULLY-ACTUATED MODE WITH

AN ALTERNATE PEDESTRIAN PHASE ACROSS THE NORTH LEG OF MD 648

AND CONCURRENT PEDESTRIAN PHASES ACROSS CATHERINE AVE. AND PASADENA ROAD

APS NOTES

TO CROSS MD 648

A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL BE "WAIT TO CROSS BALTIMORE ANNAPOLIS BOULEVARD AT CATHERINE."

B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE

TO CROSS PASADENA ROAD

A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL BE "WAIT TO CROSS PASADENA AT BALTIMORE ANNAPOLIS BOULEVARD."

B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE

TO CROSS CATHERINE AVE.

A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL BE "WAIT TO CROSS CATHERINE AT BALTIMORE ANNAPOLIS BOULEVARD."

B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MRS. KIM TRAN ASSISTANT DISTRICT ENGINEER - TRAFFIC

(410) 841–1019

(410) 841-1039

MR. JOHN MAYS ASSISTANT DISTRICT ENGINEER - MAINTENANCE (410) 841-1013

MR. JOE HORTY ASSISTANT DISTRICT ENGINEER - UTILITIES

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.

MR. EUGENE BAILEY

CHIEF, TRAFFIC OPERATIONS (410) 787-7630

TEAM LEADER SIGN OPERATIONS (410) 787–7676

SIGNAL SHOP WAREHOUSE

MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF. TRAFFIC OPERATIONS

MR. ED RODENHIZER

MS. DARLENE EIDE SUPPLY OFFICE

(410) 787-7668

(410) 787-7631

TEAM LEADER SIGNAL OPERATIONS (410) 787–7652

CONTACTS FOR POWER COMPANY

INDUSTRIAL/COMMERCIAL SERVICES NEW BUSINESS CONSTRUCTION 7317 PARKWAY DRIVE SOUTH HANOVER, MARYLAND 21076

EQUIPMENT LIST "A"

A EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

<u>DESCRIPTION</u>

ITEM NO.

NONE

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

DESCRIPTION QUANTITY MAINTENANCE OF TRAFFIC TEST PIT EXCAVATION 12 IN. HEAT APPLIED WHITE THERMOPLASTIC PAVEMENT MARKINGS 24 IN. HEAT APPLIED WHITE THERMOPLASTIC PAVEMENT MARKINGS 5 INCH HEAT APPLIED WHITE THERMOPLASTIC PAVEMENT MARKINGS 5 INCH HEAT APPLIED YELLOW THERMOPLASTIC PAVEMENT MARKINGS 12 INCH LED SIGNAL HEAD SECTION 15 FT. LIGHTING ARM WITH 250 WATT HPSV LUMINAIRE AUDIBLE /TACTILE PEDESTRIAN PUSHBUTTON 10 FT. BREAKAWAY PEDESTAL POLE 2-WIRE CENTRAL CONTROL UNIT L.E.D. 16 IN. COUNTDOWN PEDESTRIAN 16.5 FT. MAST ARM POLE & 38 FT. MAST ARM NON-INVASIVE MICRO-LOOP PROBE WITH 500 FT. LEAD IN NON-INVASIVE MICRO-LOOP PROBE WITH 1000 FT. LEAD IN REMOVE AND DISPOSE MATERIAL AND EQUIPMENT 27 FT. TWIN MAST ARM POLE & 50 FT/70 FT MAST ARMS 27 FT. MAST ARM POLE & 38 FT. MAST ARM 2 EA VIDEO DETECTION CAMERA AND CABLE 3 IN. SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED 4 IN. SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED 3 IN. SCHEDULE 80 RIGID PVC CONDUIT- BORED 4 IN. SCHEDULE 80 RIGID PVC CONDUIT- BORED NO.6 AWG STRANDED BARE COPPER GROUND WIRE METERED SERVICE PEDESTAL EMBEDDED

ELECTRICAL CABLE 1 - CONDUCTOR NO. 4 AWG - THHN /THWN ELECTRICAL HANDHOLE CUT, CLEAN, GALVANIZE, AND CAP TRAFFIC SIGNAL STRUCTURE ELECTRICAL CABLE 2 - CONDUCTOR (NO 14 AWG)

ELECTRICAL CABLE 5 - CONDUCTOR (NO 14 AWG) ELECTRICAL CABLE 7 - CONDUCTOR (NO 14 AWG) ELECTRICAL CABLE 2 - CONDUCTOR (NO 12 AWG) CONTROLLER AND CABINET - BASE MOUNT

19 CY CONCRETE FOUNDATION FOR SIGNAL 1 EA VIDEO INTERFACE EQUIPMENT

11 EA 3/4 IN. X 10 FT. GROUND ROD 4 EA D3-2 (VAR X 16") DUAL FACE SIGN - MAST ARM MOUNT

2 EA SHIELD ASSEMBLY (48" X 75") - POLE MOUNT SHIELD ASSEMBLY (30" X 51") - POLE MOUNT 2 EA R10-11B SIGN (24" x 24") - MAST ARM MOUNT

1 EA FOUR-CHANNEL, TIME- DELAY-OUTPUT LOOP DETECTOR AMPLIFIER

6 EA R10-3(1) SIGN (9" x 15") - POLE MOUNT 1 EA RELOCATE EXISTING GROUND MOUNTED SIGN

4X6 WOOD SIGN SUPPORT

EQUIPMENT LIST "C"

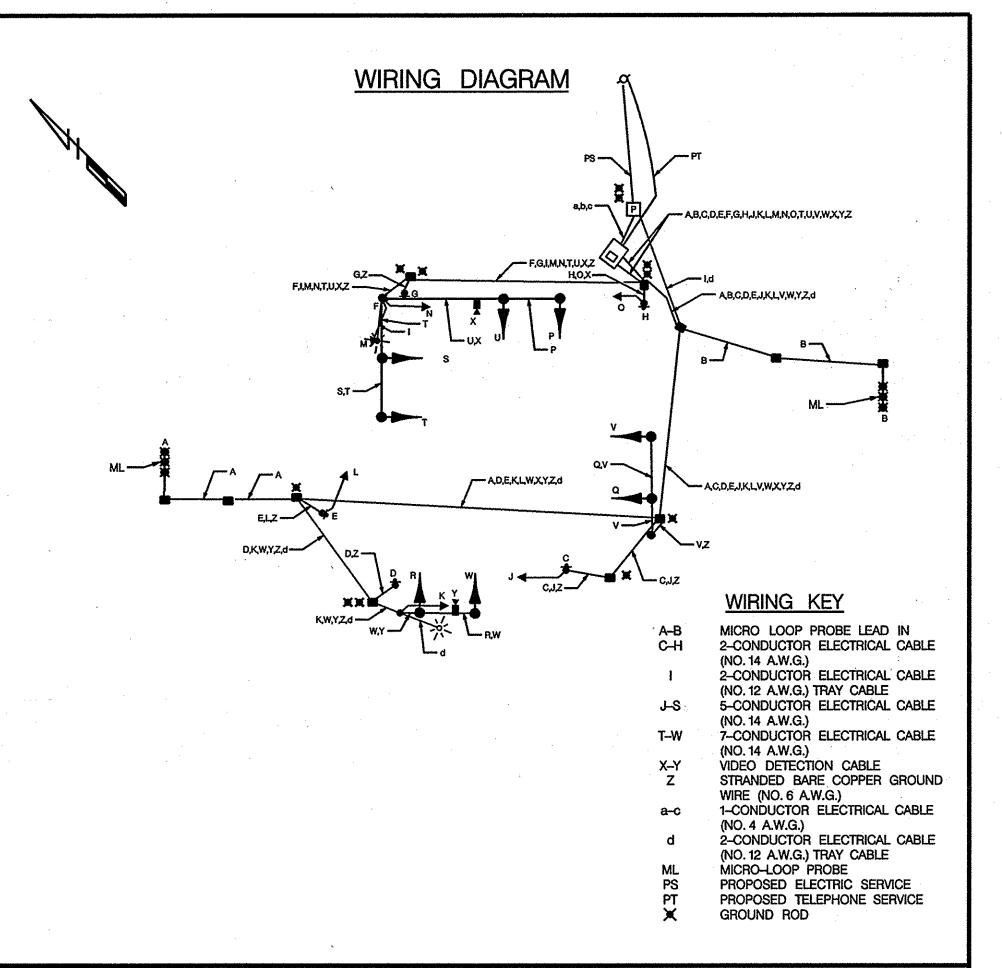
C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO. QUANTITY

NONE

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

DESCRIPTION





PHASE 2 & 6	G	G	G	G	R	R	R	R	WK	WK	DW	DW	WK	WK	o -	-0
PED CLEAR	G	G	G	G	R	R	R	R	FL-DW	FL-DW	DW	DW	FL-DW	FL-DW		
2 & 6 CHANGE	Υ	Υ	Υ	Υ	R	R	R	R	DW	DW	DW	DW	DW	DW	٥	-0
PHASE 4 & 8	R	R	R	R	G	G	G	G	DW	DW	DW	DW	. DM	DW	П	Ŧ.
4 & 8 CHANGE	R	R	R	R	Υ	Υ	Υ	Υ	DW	DW	DW	DW	DW	DW	•	
PHASE 4 & 8 ALT	R	R	`R	R	G	G	G	G	DW	DW	WK	WK	DW	DW	0	1.
PED CLEAR	R	R	R	R	G	G	G	G	DW	DW	FL-DW	FL-DW	DW	DW	1	- '
4 & 8 ALT CHANGE	R	R	R	R	Υ	Υ	Υ	Υ	DW	DW	DW	DW	DW	DW	ģ	\perp
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	DARK	DARK	DARK	DARK	DARK	DARK		* +



STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION PLAN

MD 648 AND PASADENA ROAD/CATHERINE AVE.

TRAFFIC CONCEPTS, INC.

325 Gambrills Road Suite E Gambrills. MD 21054 (410) 923-7101 FAX: (410) 923-6473 EMAIL: TRAFFIC@TRAFFIC-CONCEPTS.COM

SCALE NO	NE DATE	5-27-08	CONTRACT NO.	· - · ·		
DESIGNED BY	T. ZAYDEL	COUNTY	ANNE	ARUN	DEL	
DRAWN BY	T. ZAYDEL	LOGMILE	020	6481.9	8	
CHECKED BY	K, SCHMID	T.I.M.S. NO.		-547		
F.A.P. NO.	NA	_ TOD NO.				· · · · ·
DRAWING NO.	TS-327A GI	Ī	SHEET NO.	2	OF	3

FILE PATH: \$FILE\$ DATE: \$DATE\$